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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/736,639	12/17/2003	Lung-Pin Chen	CHEN3613/EM	3837	
23364	7590 12/19/2005		EXAMINER		
BACON & THOMAS, PLLC			PEZZUTO, HELEN LEE		
625 SLATER FOURTH FLO			ART UNIT	PAPER NUMBER	
ALEXANDR	IA, VA 22314		1713		
			DATE MAILED: 12/10/2004	DATE MAILED: 12/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		10/736,639	CHEN ET AL.				
		Examiner	Art Unit				
		Helen L. Pezzuto	1713				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet w	ith the correspondence address	5			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a vill apply and will expire SIX (6) MON cause the application to become Al	CATION. · reply be timely filed  NTHS from the mailing date of this communi BANDONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on						
	· · · · · · · · · · · · · · · · · · ·	action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under $\boldsymbol{\mathcal{E}}$	x parte Quayle, 1935 C.E	D. 11, 453 O.G. 213.	,			
Dispositi	on of Claims						
4)⊠	Claim(s) <u>1-20</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.						
6)	6) Claim(s) is/are rejected.						
	Claim(s) is/are objected to.						
8)⊠	Claim(s) <u>1-20</u> are subject to restriction and/or e	election requirement.					
Applicati	on Papers						
9)[	The specification is objected to by the Examine	r.					
10)🛛	The drawing(s) filed on <u>17 December 2003</u> is/ar	re: a)⊠ accepted or b)⊑	] objected to by the Examiner.				
	Applicant may not request that any objection to the		, ,				
	Replacement drawing sheet(s) including the correcti						
11)[	The oath or declaration is objected to by the Ex	aminer. Note the attached	d Office Action or form PTO-15	i2.			
Priority u	ınder 35 U.S.C. § 119						
_	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in A	Application No				
	3. Copies of the certified copies of the prior	ity documents have been	received in this National Stage	е			
	application from the International Bureau						
* S	see the attached detailed Office action for a list of	of the certified copies not	received.				
Attachment  1) Notice		<b>"</b> □	9 49 49 49				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date				
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		nformal Patent Application (PTO-152)				

Application/Control Number: 10/736,639 Page 2

Art Unit: 1713

## DETAILED ACTION

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-8, drawn to a bicarboxyl monomer and process of preparing the monomer, classified in class 562, subclass 512+.
  - II. Claims 9-10, drawn to a copolymer, classified in class 526, subclass 303.1+.
  - III. Claims 11-14, drawn to a process of preparing a copolymer, classified in class 524, subclass 555+.
  - IV. Claims 15-20, drawn to a copolymer/ceramic powder dispersant composition, classified in class 501, subclass 137.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I vs. II and IV, and II vs. IV are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the

Application/Control Number: 10/736,639

Art Unit: 1713

instant case, the intermediate product is deemed to be useful as is in and of itself without the presence of additional constituents/component (i.e. comonomers, ceramic powder) which would react in-situ to produce a mutually exclusive final product species and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Page 3

3. Inventions III and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the copolymer can be formulated by other viable processes including the utility of photoinitiators and other free radical

Art Unit: 1713

initiators via a variety of polymerization mechanism (i.e. emulsion, dispersion, etc.).

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 5. This application contains claims directed to the following patentably distinct species of the claimed invention: the ceramic powder inclusive of the various species expressed in claims 18-20.

In the event that applicant elects Group IV, applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 15 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

Application/Control Number: 10/736,639

Art Unit: 1713

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Page 6

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen L. Pezzuto whose telephone number is (571) 272-1108. The examiner can normally be reached on 8 AM to 4 PM, Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll/free).

Helen L. Pedzuto Primary Examiner Application/Control Number: 10/736,639 Page 7

Art Unit: 1713

Art Unit 1713

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